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Young

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[54] **BATTERY CELL HAVING AN INTERNAL CIRCUIT FOR CONTROLLING ITS OPERATION**

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[52] **U.S. Cl.** **429/7**; 429/62; 320/35; 320/37; 320/38

[58] **Field of Search** 429/7, 49, 61, 429/62; 320/21, 27, 37, 38, 39

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[57] **ABSTRACT**

A battery cell having a positive terminal, a negative terminal and a power producing core section (e.g., electrolyte) for systems, such as computer systems, cellular phones, etc. The battery cell also includes an internal circuit to monitor the state of the battery cell. The state that is monitored may include the temperature, charge level of the battery core section, the discharge/charge rate. The circuit may control the battery cell (e.g., cause charging of the battery cell). This internal circuit may be an integrated circuit, such as a microprocessor.

25 Claims, 3 Drawing Sheets